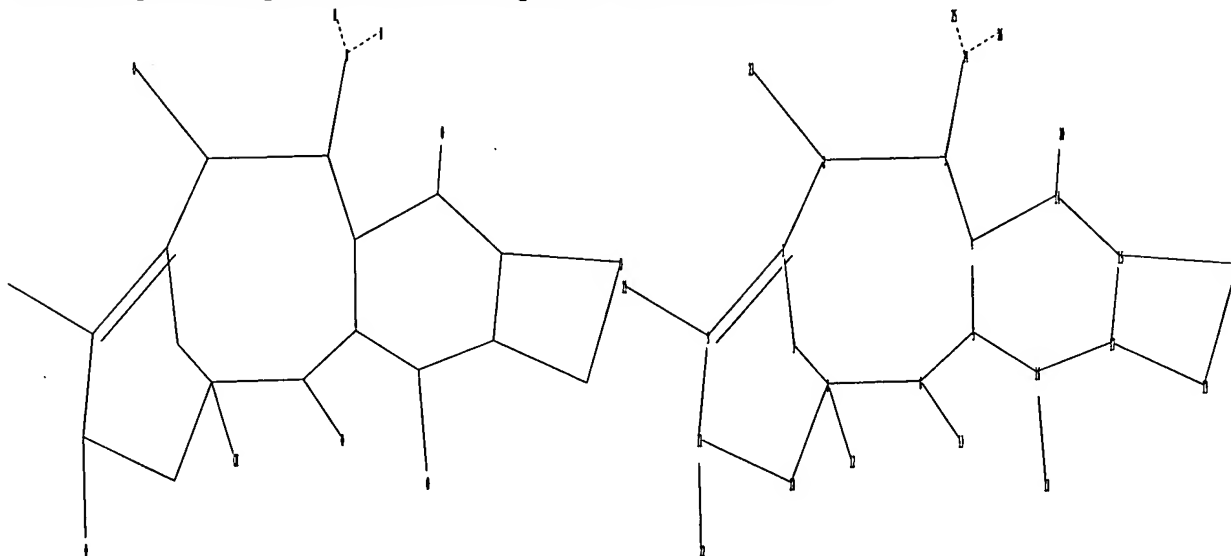


CAS

10/644,416

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416.str



chain nodes :

12 13 18 20 21 22 23 24 25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 19 27

chain bonds :

2-23 3-24 6-13 8-12 9-21 11-22 14-20 16-18 24-25 24-26

ring bonds :

1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15
15-17 15-27 16-17 17-19 19-27

exact/norm bonds :

1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10
8-12 9-11 10-11 11-22 14-15 14-20 15-17 15-27 16-17 16-18 17-19 19-27
24-25 24-26

exact bonds :

9-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:Atom

L1 STRUCTURE UPLOADED

=> s l1 ful

FULL SEARCH INITIATED 13:19:23 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 21 TO ITERATE

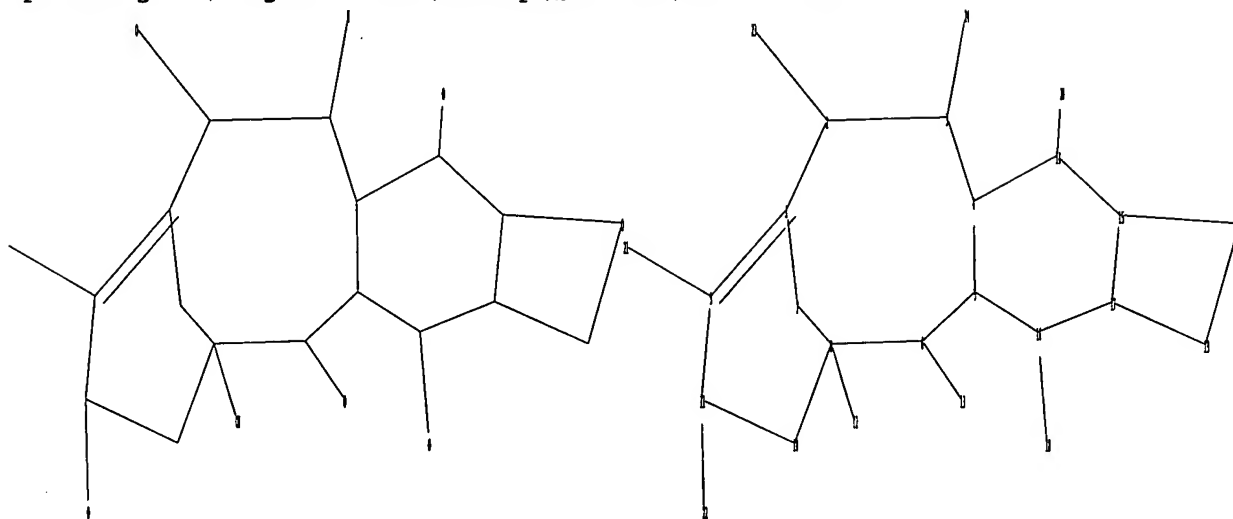
100.0% PROCESSED 21 ITERATIONS
 SEARCH TIME: 00.00.01

0 ANSWERS

L2 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416b.str



chain nodes :

12 13 18 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 19 25

chain bonds :

2-23 3-24 6-13 8-12 9-21 11-22 14-20 16-18

ring bonds :

1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15

15-17 15-25 16-17 17-19 19-25

exact/norm bonds :

1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10

8-12 9-11 10-11 11-22 14-15 14-20 15-17 15-25 16-17 16-18 17-19 19-25

exact bonds :

9-21

Connectivity :

24:3 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom

20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom

L3 STRUCTURE UPLOADED

=> s 13 ful

FULL SEARCH INITIATED 13:22:31 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 519 TO ITERATE

100.0% PROCESSED 519 ITERATIONS
 SEARCH TIME: 00.00.01

0 ANSWERS

L4 0 SEA SSS FUL L3

=>

=>

Executing the logoff script....

=> LOG H

| | | |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 324.81 | 325.02 |

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 13:22:54 ON 06 SEP 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptaul29rc

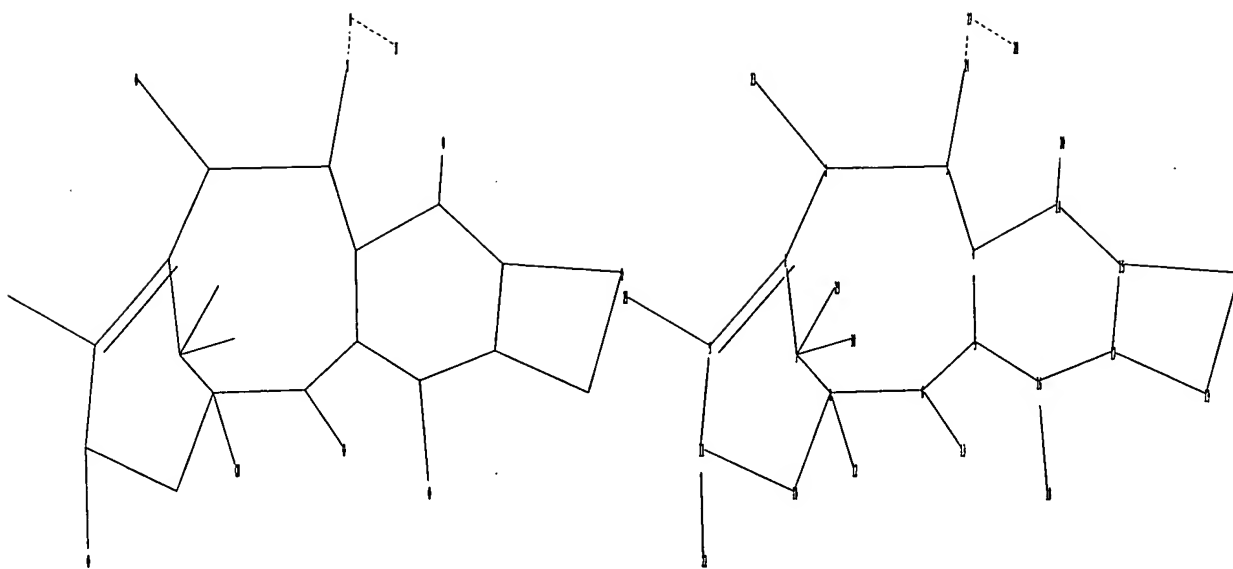
PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'REGISTRY' AT 14:59:44 ON 06 SEP 2005
 FILE 'REGISTRY' ENTERED AT 14:59:44 ON 06 SEP 2005
 COPYRIGHT (C) 2005 American Chemical Society (ACS)

| | | |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 10.98 | 11.19 |

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416f.str



```

chain nodes :
12 13 18 20 21 22 23 24 27 28 29 30
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 19 25
chain bonds :
2-23 3-24 6-13 7-29 7-30 8-12 9-21 11-22 14-20 16-18 24-27 27-28
ring bonds :
1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15
15-17 15-25 16-17 17-19 19-25
exact/norm bonds :
1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10
8-12 9-11 10-11 11-22 14-15 14-20 15-17 15-25 16-17 16-18 17-19 19-25
24-27 27-28
exact bonds :
7-29 7-30 9-21

```

```

Connectivity :
24:3 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom 27:CLASS 28:CLASS
29:CLASS 30:CLASS

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L2 STRUCTURE UPLOADED

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=> s 12 ful
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FULL SCREEN SEARCH COMPLETED - 61 TO ITERATE

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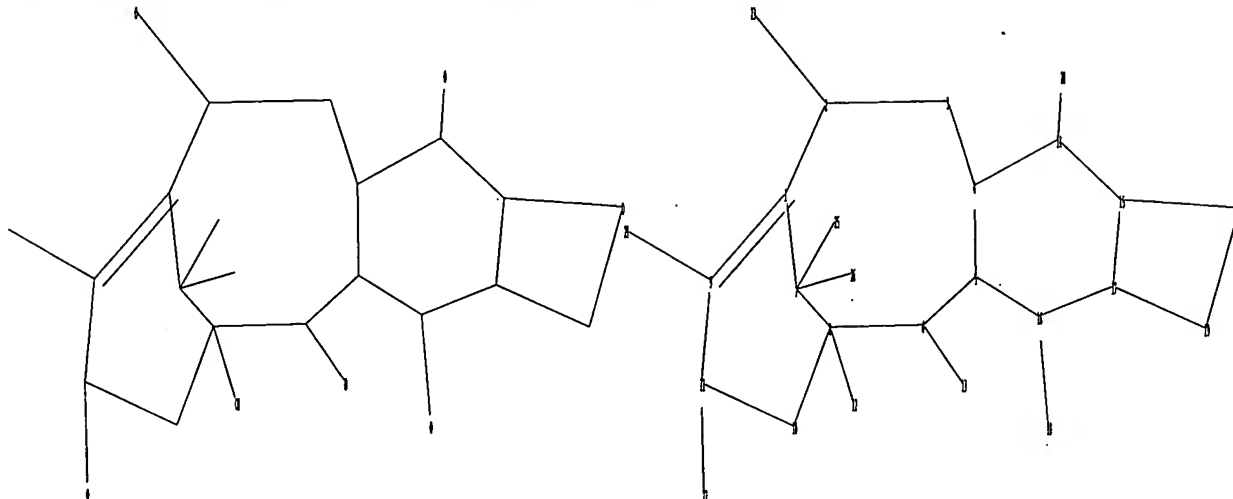
100.0% PROCESSED 61 ITERATIONS
 SEARCH TIME: 00.00.01

0 ANSWERS

L3 0 SEA SSS FUL L2

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416g.str



```

chain nodes :
12 13 18 20 21 22 23 25 26
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 19 24
chain bonds :
2-23 6-13 7-25 7-26 8-12 9-21 11-22 14-20 16-18
ring bonds :
1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15
15-17 15-24 16-17 17-19 19-24
exact/norm bonds :
1-2 1-7 1-9 2-3 2-23 3-4 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10 8-12
9-11 10-11 11-22 14-15 14-20 15-17 15-24 16-17 16-18 17-19 19-24
exact bonds :
7-25 7-26 9-21
  
```

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:Atom 25:CLASS 26:CLASS
  
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L4 STRUCTURE UPLOADED

=> s 14 ful

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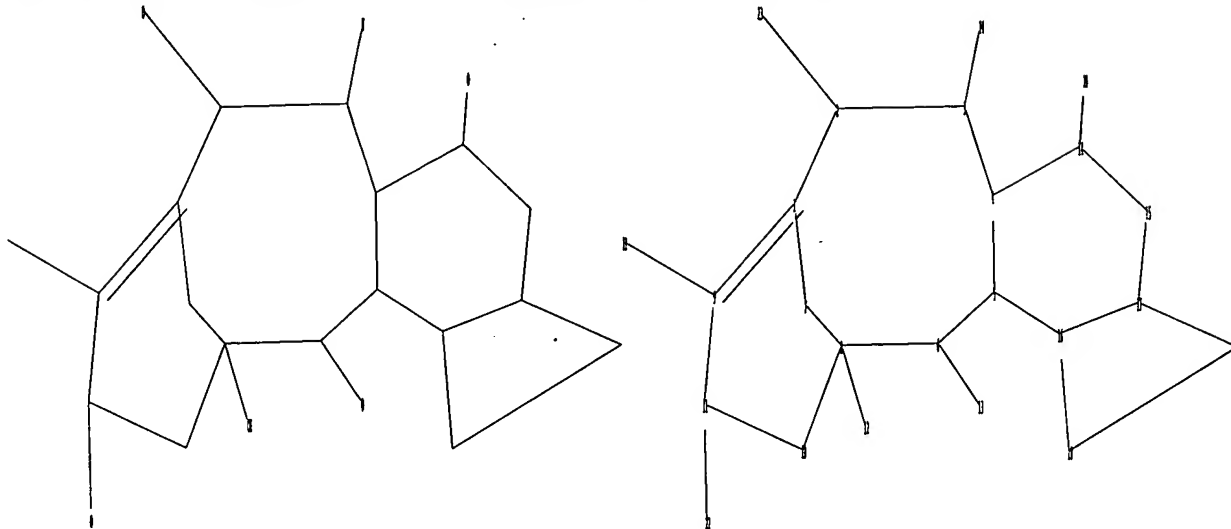
100.0% PROCESSED 12258 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L5 0 SEA SSS FUL L4

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416h.str



chain nodes :
12 13 20 21 22 23 24
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19
chain bonds :
2-23 3-24 6-13 8-12 9-21 11-22 14-20
ring bonds :
1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15
15-17 16-17 16-18 17-19 18-19
exact/norm bonds :
1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10
8-12 9-11 10-11 11-22 14-15 14-20 15-17 16-17 16-18 17-19 18-19
exact bonds :
9-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS

L6 STRUCTURE UPLOADED

=> s 16 ful

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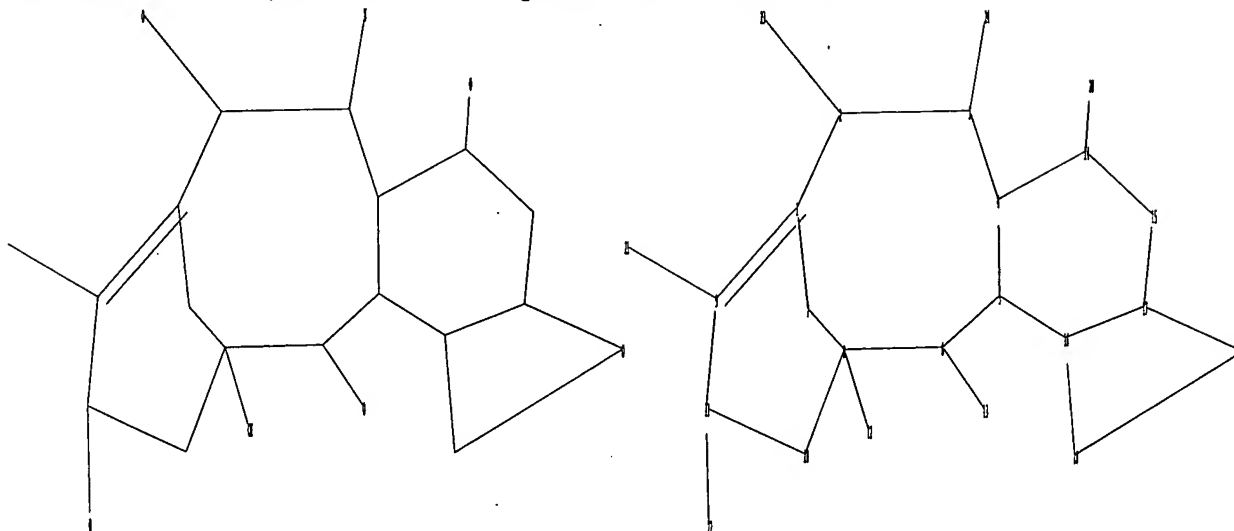
100.0% PROCESSED 633 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L7 0 SEA SSS FUL L6

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416i.str



chain nodes :

12 13 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19

chain bonds :

2-23 3-24 6-13 8-12 9-21 11-22 14-20

ring bonds :

1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15
15-17 16-17 16-18 17-19 18-19

exact/norm bonds :

1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10
8-12 9-11 10-11 11-22 14-15 14-20 15-17 16-17 16-18 17-19 18-19

exact bonds :

9-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS

L8 STRUCTURE UPLOADED

=> s l8 ful

FULL SEARCH INITIATED 15:05:40 FILE 'REGISTRY'
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100.0% PROCESSED 207 ITERATIONS
SEARCH TIME: 00.00.01

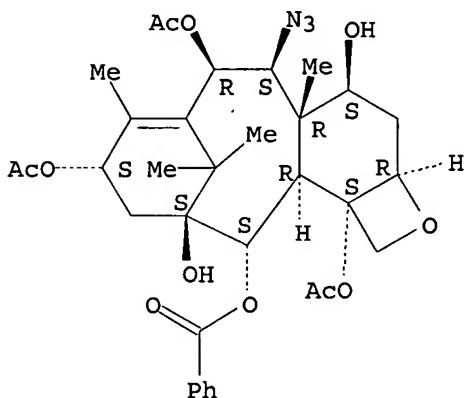
2 ANSWERS

L9 2 SEA SSS FUL L8

=> d 1-2

L9 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 851430-16-5 REGISTRY
ED Entered STN: 01 Jun 2005
CN 7,11-Methano-1H-cyclodeca[3,4]benz[1,2-b]oxete-4,6,9,11,12,12b-hexol,
5-azido-2a,3,4,4a,5,6,12,12a-octahydro-4a,8,13,13-tetramethyl-,
6,9,12b-triacetate 12-benzoate, (2aR,4S,4aR,5S,6R,9S,11S,12S,12aR,12bS) -
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C33 H41 N3 O11
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

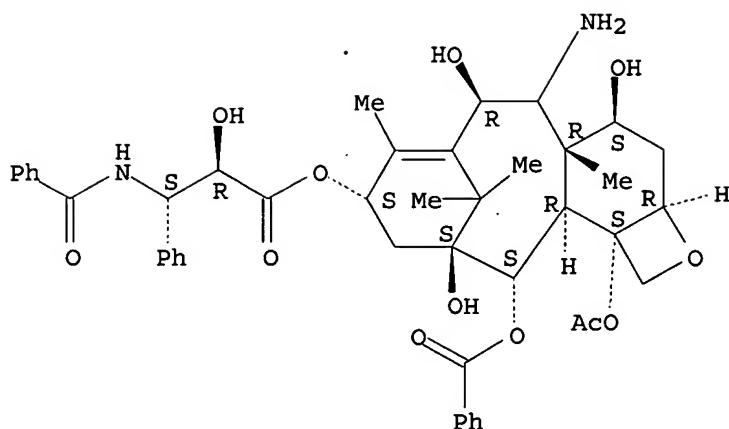
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 502437-28-7 REGISTRY
ED Entered STN: 09 Apr 2003
CN Benzenepropanoic acid, β -(benzoylamino)- α -hydroxy-,
(2aR,4S,4aR,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-5-amino-12-
(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,6,11-
trihydroxy-4a,8,13,13-tetramethyl-7,11-methano-1H-cyclodeca[3,4]benz[1,2-
b]oxet-9-yl ester, (α R, β S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C45 H52 N2 O12
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 662.99 | 663.20 |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:06:05 ON 06 SEP 2005
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FILE COVERS 1907 - 6 Sep 2005 VOL 143 ISS 11
FILE LAST UPDATED: 5 Sep 2005 (20050905/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l9
L10 2 L9

=> d 1-2 fbib abs fhitr

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:409269 CAPLUS
DN 142:463899
TI Semi-synthesis of taxane intermediates from 9-dihydro-13-acetylbaccatin

III
 IN Naidu, Ragina
 PA Phytogen Life Sciences Inc., Can.
 SO U.S. Pat. Appl. Publ., 56 pp.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|------------|
| PI | US 2005101789 | A1 | 20050512 | US 2003-695416 | 20031027 |
| | WO 2005044811 | A2 | 20050519 | WO 2004-US35583 | 20041027 |
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| | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, | | | | |
| | CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, | | | | |
| | GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, | | | | |
| | LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, | | | | |
| | NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, | | | | |
| | TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, | | | | |
| | AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, | | | | |
| | EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, | | | | |
| | SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, | | | | |
| | SN, TD, TG | | | | |
| | | | | US 2003-695416 | A 20031027 |
| OS | MARPAT 142:463899 | | | | |
| GI | | | | | |

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

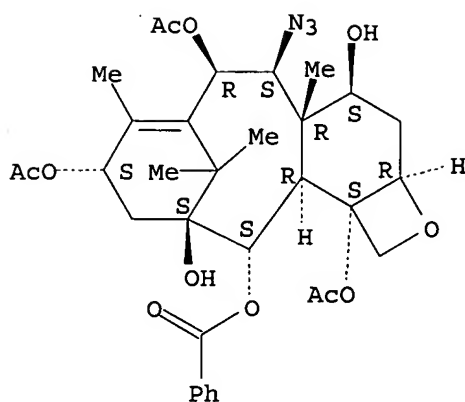
AB A method is provided for the semi-synthesis of taxane intermediates useful in the preparation of paclitaxel (I; R = C₆H₅, R' = Ac) and docetaxel (I; R = Boc, R' = H) from 9-dihydro-13-acetylbaccatin III (II). The preparation of a suitably protected baccatin III backbone, e.g. III [R₁, R₂, R₄, R₅, R₆ = H, hydroxyl protective group {e.g., CHO, Ac, COCHCl₂, COEt, COCHMe₂, COCMe₃, SiMe₃, SiEt₃, Si(CHMe₂)₃, SiMe₂CHMe₂, SiEt₂CHMe₂, SiMe₂CMe₃, SiPh₂Me, SiPh₂CMe₃, Si(CH₂Ph)₃, SiPh₃, CO₂CH₂CCl₃, CH₂Ph, CH₂C₆H₄NO₂-4, CH₂C₆H₄OMe-4, C₆H₅, Boc, Cbz, CH₂OMe, CH₂CH₂OMe, CH(OEt)Me, C₆H₄OMe-4, THP, tetrahydrofuranyl, alkylsulfonyl, arylsulfonyl}; R₃ = β-N₃, α-OH, β-Br, :O] from II, and the insertion of the phenylisoserine side chain onto the protected baccatin III from III to form the taxane derivs. and I is disclosed.

IT 851430-16-5DP, C(7)-protected
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and oxidation of; semi-synthesis of taxane intermediates from 9-dihydro-13-acetylbaccatin III)

RN 851430-16-5 CAPLUS

CN 7,11-Methano-1H-cyclodeca[3,4]benz[1,2-b]oxete-4,6,9,11,12,12b-hexol,
 5-azido-2a,3,4,4a,5,6,12,12a-octahydro-4a,8,13,13-tetramethyl-,
 6,9,12b-triacetate 12-benzoate, (2aR,4S,4aR,5S,6R,9S,11S,12S,12aR,12bS) -
 (9CI) (CA INDEX NAME)

Absolute stereochemistry..



L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:222324 CAPLUS
 DN 138:260444
 TI Manufacture of polyglutamate-therapeutic agent conjugates
 IN Kumar, Anil; Klein, J. Peter; Bhatt, Rama; Vawter, Edward
 PA Cell Therapeutics, Inc., USA
 SO U.S. Pat. Appl. Publ., 13 pp., Cont.-in-part of U.S. Ser. No. 686,627.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| US 2003054977 | A1 | 20030320 | US 2002-198187 | 20020718 |
| | | | US 1999-159135P | P 19991012 |
| | | | US 2000-686627 | A2 20001012 |
| EP 1466627 | A1 | 20041013 | EP 2004-13703 | 20001012 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY | | | US 1999-159135P | P 19991012 |
| | | | EP 2000-972079 | A3 20001012 |
| US 2002077279 | A1 | 20020620 | US 2001-971657 | 20011009 |
| | | | US 1999-159135P | P 19991012 |
| | | | US 2000-686627 | A3 20001012 |
| US 2003224971 | A1 | 20031204 | US 2003-404152 | 20030402 |
| | | | US 1999-159135P | P 19991012 |
| | | | US 2000-686627 | A1 20001012 |

PATENT FAMILY INFORMATION:

FAN 2001:283821

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2001026693 | A2 | 20010419 | WO 2000-US28109 | 20001012 |
| WO 2001026693 | A3 | 20011227 | | |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |

| | | | | | |
|---|----|----------|-----------------|----|----------|
| CA 2387611 | AA | 20010419 | US 1999-159135P | P | 19991012 |
| | | | CA 2000-2387611 | | 20001012 |
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| AU 781735 | B2 | 20050609 | AU 2001-10793 | | 20001012 |
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| ZA 2002002695 | A | 20031203 | ZA 2002-2695 | | 20020405 |
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| NO 2002001701 | A | 20020523 | NO 2002-1701 | | 20020411 |
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| | | | WO 2000-US28109 | W | 20001012 |
| NZ 529789 | A | 20031219 | NZ 2003-529789 | | 20031126 |
| | | | US 1999-159135P | P | 19991012 |

AB An improved process for preparing a conjugate of poly(glutamic acid) and a therapeutic agent is described. The process comprises (a) providing the protonated form of a poly(glutamic acid) polymer and a therapeutic agent, (b) covalently linking the therapeutic agent to poly(glutamic acid) in an inert organic solvent to form a polyglutamic acid-therapeutic agent conjugate, (c) precipitating the conjugate from solution by addition of an excess volume of aqueous salt solution, and (d) collecting the conjugate as a protonated solid.

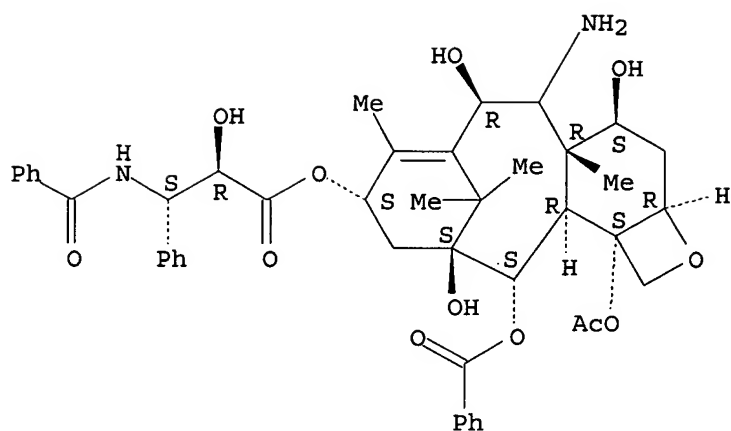
conjugates for clin. development and pharmaceutical use, and polyglutamic acid-therapeutic agent conjugates prepared by these processes. For example, poly(L-glutamic acid)-paclitaxel conjugate was prepared and found to be active in mice implanted s.c. with Lewis lung carcinoma cells.

IT 502437-28-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of polyglutamate-antitumor drug conjugates)

RN 502437-28-7 CAPLUS

CN Benzenepropanoic acid, β -(benzoylamino)- α -hydroxy-, (2aR,4S,4aR,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-5-amino-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,6,11-trihydroxy-4a,8,13,13-tetramethyl-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, (α R, β S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

18.23

681.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.46

-1.46

STN INTERNATIONAL LOGOFF AT 15:08:16 ON 06 SEP 2005